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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/583,797	05/31/2000	Rosario A. Uceda-Sosa	POU9-2000-0018-US1	9330
46369	7590 10/18/2005		EXAMINER	
HESLIN ROTHENBERG FARLEY & MESITI P.C.			VO, LILIAN	
	5 COLUMBIA CIRCLE ALBANY, NY 12203		ART UNIT	PAPER NUMBER
•••••••••••••••••••••••••••••••••••••••			2195	
			DATE MAILED: 10/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/583,797	UCEDA-SOSA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Lilian Vo	2195		
The MAILING DATE of this communication apperent of the Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1 - 48 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 - 48 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

Page 2

Application/Control Number: 09/583,797

Art Unit: 2195

DETAILED ACTION

- 1. Claims 1 48 are pending.
- 2. In view of the appeal brief filed on 8/1/05, PROSECUTION IS HEREBY REOPENED.

 New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/583,797

Art Unit: 2195

4. Claims 1 – 10, 21 - 23, 34, 35, 36, 47 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi et al. (US Pat. Application Publication 2002/0010711, hereinafter Nakanishi) in view of Soltis et al (US 6,493,804, hereinafter Soltis).

5. Regarding claim 1, Nakanishi discloses a method of managing the locking of resources of a data repository (fig. 1), said method comprising:

determining whether a relationship between one resource and another resource of a data is a containment-based relationship or whether the relationship is reference-based relationship (page 2, paragraph 55, page 3, paragraph 60, page 7, paragraph 131, fig. 20), a hierarchical structure of a plurality of resources (fig. 20); said hierarchical structure comprising one or more resources having a reference-based relationship and one or more resources having a containment-based relationship (fig. 20: parent-children relationship and hyperlink relationship, page 7, paragraph 131);

locking at least one resource of said plurality of resources using a locking strategy that depends on whether the determined relationship is a containment-based relationship or a reference-base relationship (page 2, paragraph 55: locking object determining means 103 determines a node group to be locked according to hyperlink relationship information under control of the hierarchical structure control means and from a locking object determining rule. Page 3, paragraph 60).

With respect to the relationship between one resource and another resource of data is containment-based relationship or is a reference-based relationship, Nakanishi discloses parent-child relationship and hyperlink relationship (fig. 20). Nakanishi however did not clearly

Application/Control Number: 09/583,797

Art Unit: 2195

disclose the hierarchical structure of resources is a data repository. Nevertheless, Soltis discloses a data repository comprises a hierarchical structure of a plurality of resources (fig. 5). Therefore, it would have been obvious for one of an ordinary skill in the art, at the time the invention was made, to implement Nakanishi's hierarchical structure of resource as a data repository to store all the documents because the data still be able for accessible to all users to perform the necessary editing.

- 6. Regarding **claim 2**, as modified Nakanishi discloses the locking of said at least one resource is performed without locking at least one other resource of said plurality of resources (Soltis: col. 3, lines 41 64 and col. 18, line 62 col. 19, line 11).
- 7. Regarding claim 3, as modified Nakanishi discloses the locking of said at least one resource is further based on an operation to be performed (Soltis: abstract, col. 9, lines 42 65).
- Regarding claim 10, as modified Nakanishi discloses the operation comprises at least one of create, delete, read and write (Soltis: col. 9, lines 42 65, col. 14, lines 33 55, col. 19, lines 15 34).
- 9. Regarding claim 21, as modified Nakanishi discloses the determining comprises employing a set of policies (Nakanishi: page 2, paragraph 55).

Art Unit: 2195

10. Regarding claim 22, as modified Nakanishi discloses the resource comprises at least one of a table and a directory (Soltis: fig. 5).

- Claims 4 9, 23, 34, 35, 36, 47 and 48 are rejected on the same ground as stated in claims 1 3, 10, 21 and 22 above.
- 12. Claims 11 14, 24 27 and 37 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi et al. (US Pat. Application Publication 2002/0010711) in view of Soltis et al (US 6,493,804) as applied to claims 1, 4 and 7 above, and further in view of Shaughnessy (US 5,555,388).
- Regarding claim 11, as modified Nakanishi discloses the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig 5).

As modified Nakanishi did not clearly specify the locking comprises write locking the first resource in order to create an instance of the second resource. Nevertheless, the concept of obtaining a write locking the first resource in order to create (copy, create or duplicate) an instance of the second resource is considered obvious and well-known in the art in which a write locking to the first resource must be obtained in order to create another instance of the resource. For example, a directory tree 520 in fig. 5, a write locking DIR1 (first resource) must be obtained in order to create an instance of either File1, File7, File8 and/or DIR3 (second resource) for their existence (Soltis: fig. 5). Furthermore, this concept can be found from Shaughnessy in which a

Application/Control Number: 09/583,797 Page 6

Art Unit: 2195

write locking the first resource in order to create an instance the second resource (col. 10, lines 8 – 12: "Suppose, for example, a user is copying an Orders table. With a write lock in place, other users can concurrently view the table but cannot change the table structure or contents until the lock is lifted ...". Col. 10, lines 25 - 28). It would have been obvious for one of ordinary skill in the art, at the time the invention was made to incorporate this concept to modified Nakanishi to prevent other users from changing the contents of a family of objects (Shaughnessy: col. 9, line 66 – col. 10, line 1).

- 14. Regarding claim 12, as modified Nakanishi discloses the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises write locking the first resource and the second resource in order to delete an instance of the second resource (Shaughnessy: col. 9, line 44 col. 10, line 37).
- Regarding claim 13, as modified Nakanishi discloses the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises read locking the second resource in order to read therefrom (Shaughnessy: col. 9, line 18 col. 10, line 37 and col. 15, lines 42 44).
- 16. Regarding claim 14, as modified Nakanishi discloses the relationship is a containment-based relationship, wherein the at least one resource comprises a first resource and a second

Application/Control Number: 09/583,797

Art Unit: 2195

resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises write locking the second resource in order to write thereto (Shaughnessy: col. 9, line 18 – col. 10, line 37).

- 17. Claims 24 27 and 37 40 are rejected on the same ground as stated in claims 11 14 above.
- 18. Claims 15 –20, 28 33 and 41 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakanishi et al. (US Pat. Application Publication 2002/0010711) in view of Soltis (US 6,493,804) as applied to claims 1, 4 and 7 above, and further in view of Annevelink (US 5,448,727).
- 19. Regarding claim 15, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Nakanishi: fig. 20, Soltis: fig. 5).

As modified Nakanishi did not clearly disclose the locking comprises write locking the first resource in order to delete the first resource. However the concept of obtaining the write lock to a resource before a delete operation can be performed on the resource is considered obvious and well known in the art. For example, a directory tree 520 in fig. 5, a write locking DIR1 (first resource) must be obtained in order to delete DIR1, and all the files/directories that it has referencing to (Soltis: fig. 5). Furthermore, this concept can be found from Annevelink in

Art Unit: 2195

which she discloses the reference-based relationship (Annevelink: col. 18, table 4 and fig. 6) and write locking the object in order to delete the object (Annevelink: col. 12, lines 27 – lines 31, lines 42 - 63). It would have been obvious for one of ordinary skill in the art, at the time the invention was made to incorporate this feature to modified Nakanishi to improve concurrency access to database.

- 20. Regarding claim 16, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Nakanishi: fig. 20, Soltis: fig. 5), wherein the locking comprises write locking the first resource in order to create an instance of the second resource (Annevelink: col. 18, table 4, fig. 6, col. 11, lines 36 52, col. 12, lines 27 lines 31, lines 42 63, col. 13, lines 25 46).
- Regarding claim 17, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises write locking the at least one instance of the first resource in order to delete the second resource (Annevelink: col. 18, table 4, fig. 6, col. 12, lines 27 lines 31, lines 42 63).
- 22. Regarding claim 18, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource

Art Unit: 2195

comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises read locking the first resource and the second resource in order to read the second resource (Annevelink: col. 18, table 4, fig. 6, col. 12, lines 27 – lines 31, lines 42 - 63).

- Regarding claim 19, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource comprises a first resource and a second resource, the first resource referencing the second resource (Soltis: fig. 5), wherein the locking comprises read locking the first and second resource and write locking the second resource in order to write to the second resource (Annevelink: col. 18, table 4, fig. 6, col. 12, lines 27 lines 31, lines 42 63).
- Regarding claim 20, as modified Nakanishi discloses the relationship is a reference-based relationship (Nakanishi: fig. 20, hyperlink relationship), wherein the at least one resource comprises a first resource, a second resource and a third resource, the first resource and the second resource referencing the third resource (Soltis: fig. 5), wherein the locking comprises read locking the first and second resource and write locking the third resource in order to write the third resource (Annevelink: col. 18, table 4, fig. 6, col. 12, lines 27 lines 31, lines 42 63).
- 25. Claims 28 33 and 41 46 are rejected on the same ground as stated in claims 15 20 above.

Response to Arguments

26. Applicants' arguments with respect to claims 1, 4 and 7 have been considered but are most in view of the new ground(s) of rejection as set forth above.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Xia (US 6,154,849), Breuker et al. (6,308,166 B1), McPartlan et al. (US Pat. App. Pub. 2003/0215083 A1), Du et al. (US 6,308,163 B1), and Smiley (US 6,263,341 B1) disclose the determining a relationship between resources.
- 28. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lilian Vo whose telephone number is 571-272-3774. The examiner can normally be reached on Monday Friday, 8am 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist at 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

Application/Control Number: 09/583,797 Page 11

Art Unit: 2195

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lilian Vo Examiner Art Unit 2195

lv October 12, 2005

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